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Prepared For:

Consultant:

Architect:



TWENTY THAMES
CONDOMINIUM

20 Thames Street, Portland Maine

Project:

Revisions:

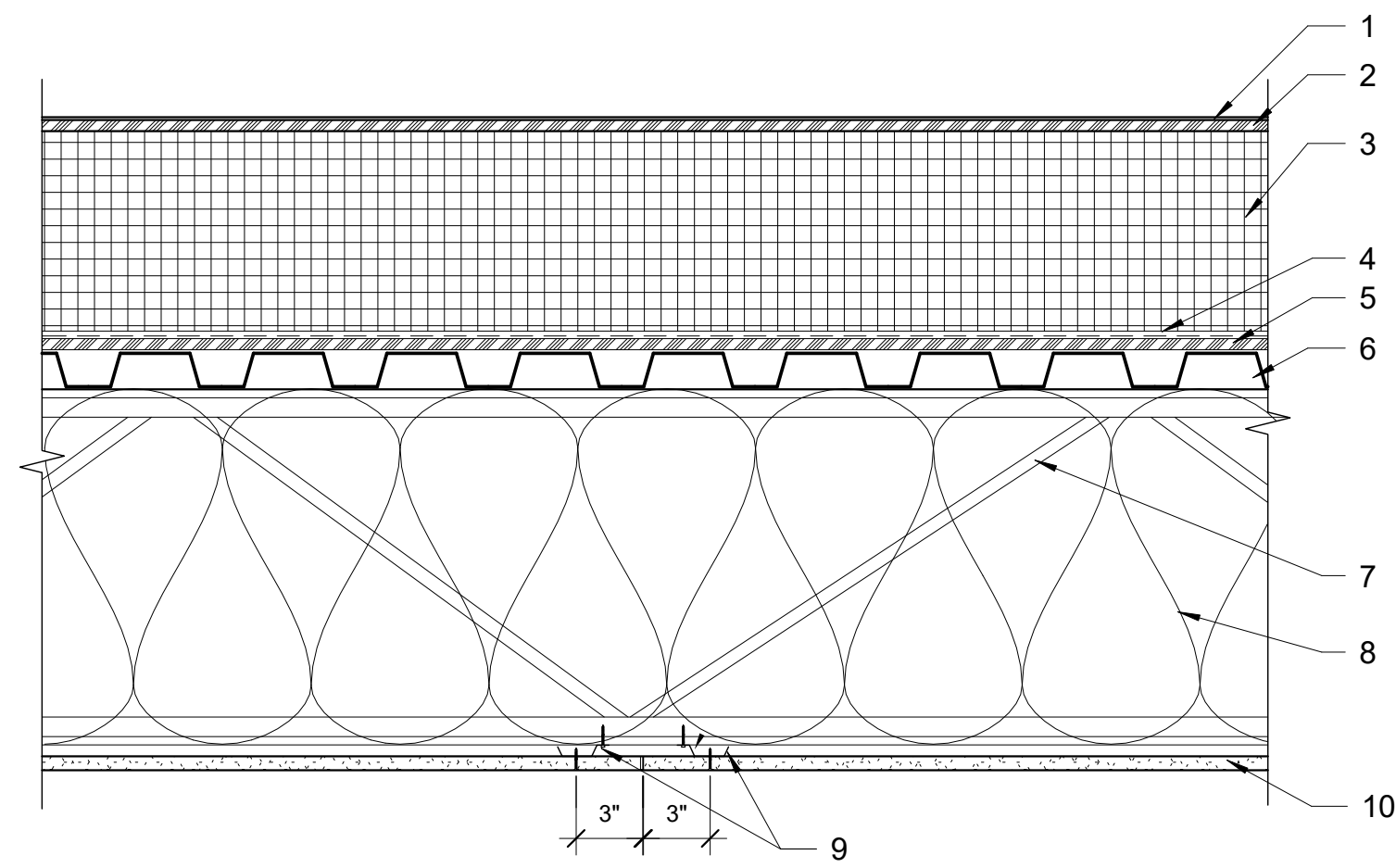
Date: FEB 16, 2018

Scale: 1 1/2" = 1'-0"

10 2/16/18 SI-4

FLOOR, CEILING, ROOF
TYPES

A4.10

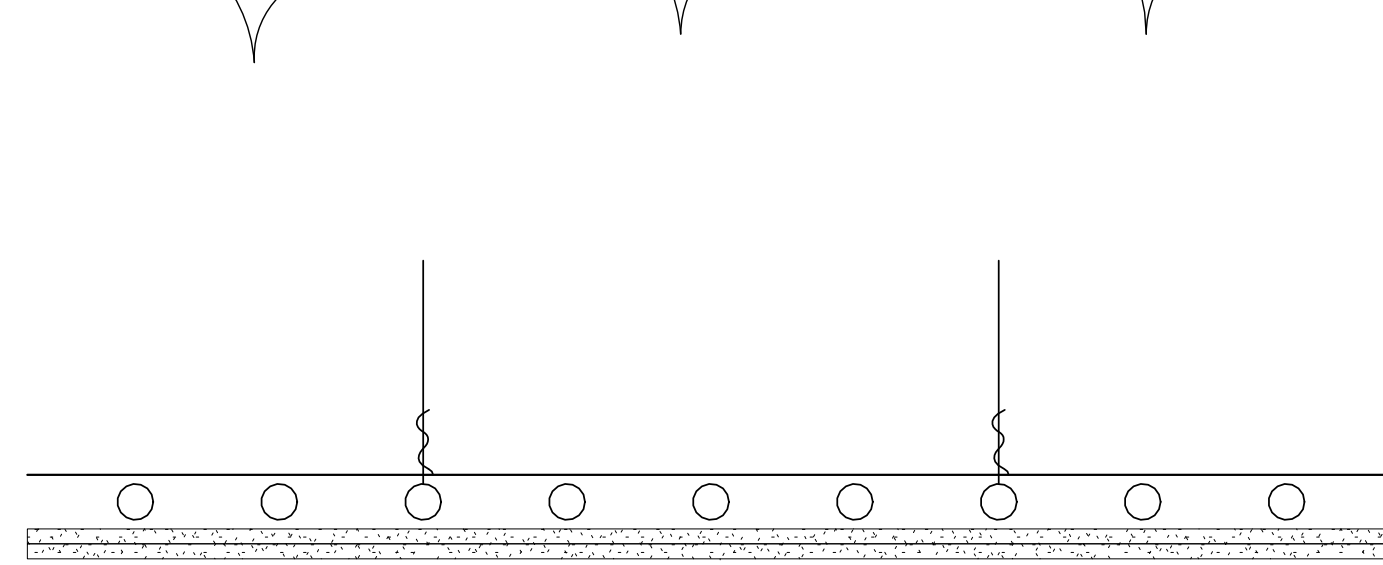


1-HOUR RATED ROOF ASSEMBLY
DESIGN NUMBER: UL P 267

- 60 MIL EPDM — FULLY ADHERED MEMBRANE SYSTEM
- 5/8" DENS DECK COVERBOARD - FULLY ADHERED TO INSULATION SYSTEM
- EXTERIOR INSULATION - 20 PSI POLYISOCYANURATE RIGID INSULATION MIN 4" THICK FULLY ADHERED TO VAPOR BARRIER - CONTRACTOR TO NOTE THAT SOME PARTS OF THIS SYSTEM ARE SLOPED AND OTHER PARTS HAVE SLOPED STRUCTURE.
- SELF ADHERED PROPRIETARY VAPOR BARRIER - FULLY ADHERE TO DENS DECK SEAL ALL PENETRATIONS AND TERMINATIONS. NOTE - AVB AT WALL SYSTEM AND ROOF VAPOR BARRIER ARE TERMINATED TOGETHER. IT IS THE RESPONSIBILITY OF ALL TO VERIFY ALL TERMINATIONS ARE MADE.
- 5/8" DENS DECK COVERBOARD - MECHANICALLY FASTEN TO DECK
- GALV. METAL ROOF DECK - 1/2" - 20 GA (SEE STRUCTURAL)
- JOIST - (SEE STRUCTURAL FOR ACTUAL SIZE)
- SOUND ATTENUATING FIBERGLASS BATT INSULATION - INSULATION BEARING THE UL CLASSIFICATION MARKING AS TO SURFACE BURNING CHARACTERISTICS AND/OR FIRE RESISTANCE. FILL THE CAVITY WITH THE INSULATION BUT DO NOT COMPRESS.
- KINETICS ISO-MAX HANGERS OR EQUAL
- GYPSUM BOARD - NOM 5/8 IN. THICK, 48" WIDE GYPSUM PANELS. GYPSUM PANELS INSTALLED WITH LONG DIMENSION PERPENDICULAR TO RESILIENT CHANNELS. GYPSUM PANELS SECURED WITH 1 IN. LONG TYPE S BUGLE HEAD STEEL SCREWS SPACED 12 IN. OC AND LOCATED A MIN OF 1/2 IN. FROM SIDE JOINTS AND 3 IN. FROM THE END JOINTS. END JOINTS SECURED TO BOTH RESILIENT CHANNELS AS SHOWN IN END JOINT DETAIL.

R1 | ROOF TYPE R1 - 1-HR ROOF ASSEMBLY

1 1/2" = 1'-0"



1-HOUR RATED CEILING ASSEMBLY - TOP OF STAIR SHAFT

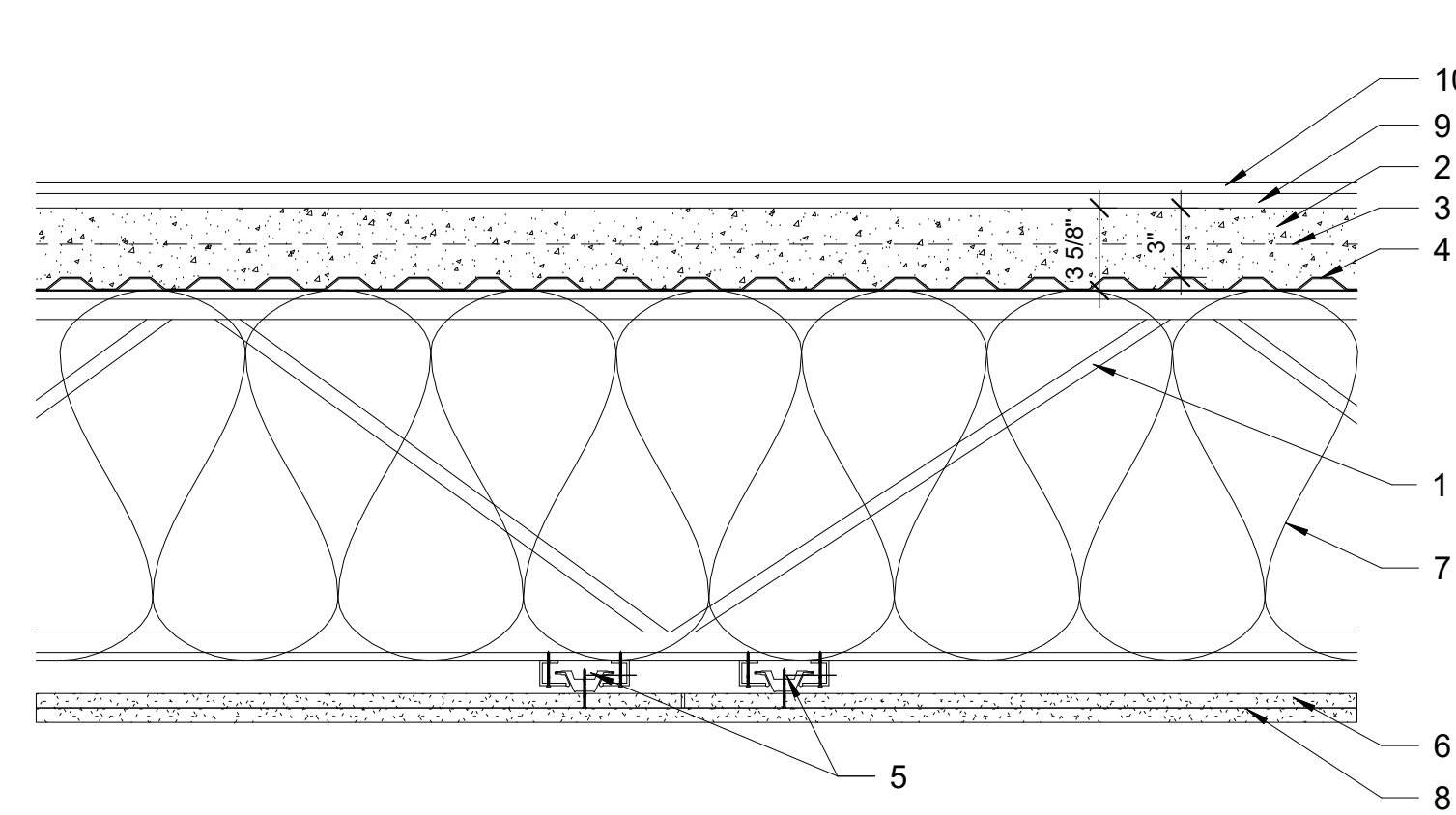
SYSTEM WFS1XX
FIRE RATING PROVIDED BY MEMBRANE ONLY.

The ceiling membrane consists of 5/8" Type X Gypsum board, 2 layers, ceiling framing, maximum spacing 24" o.c.

The base layer of gypsum board is applied at right angles to the ceiling framing and attached with 1" type S or W drywall screws spaced 8" o.c. The second layer of gypsum board is applied at right angles to the ceiling framing and attached with 1-5/8" type S or W drywall screws spaced 12" o.c. Joints must be offset. Fasteners are finished to level 1 as specified in GA-214, Levels of Gypsum Board Finish.

C1 | CEILING TYPE C1 - 1 HR RATED

1 1/2" = 1'-0"



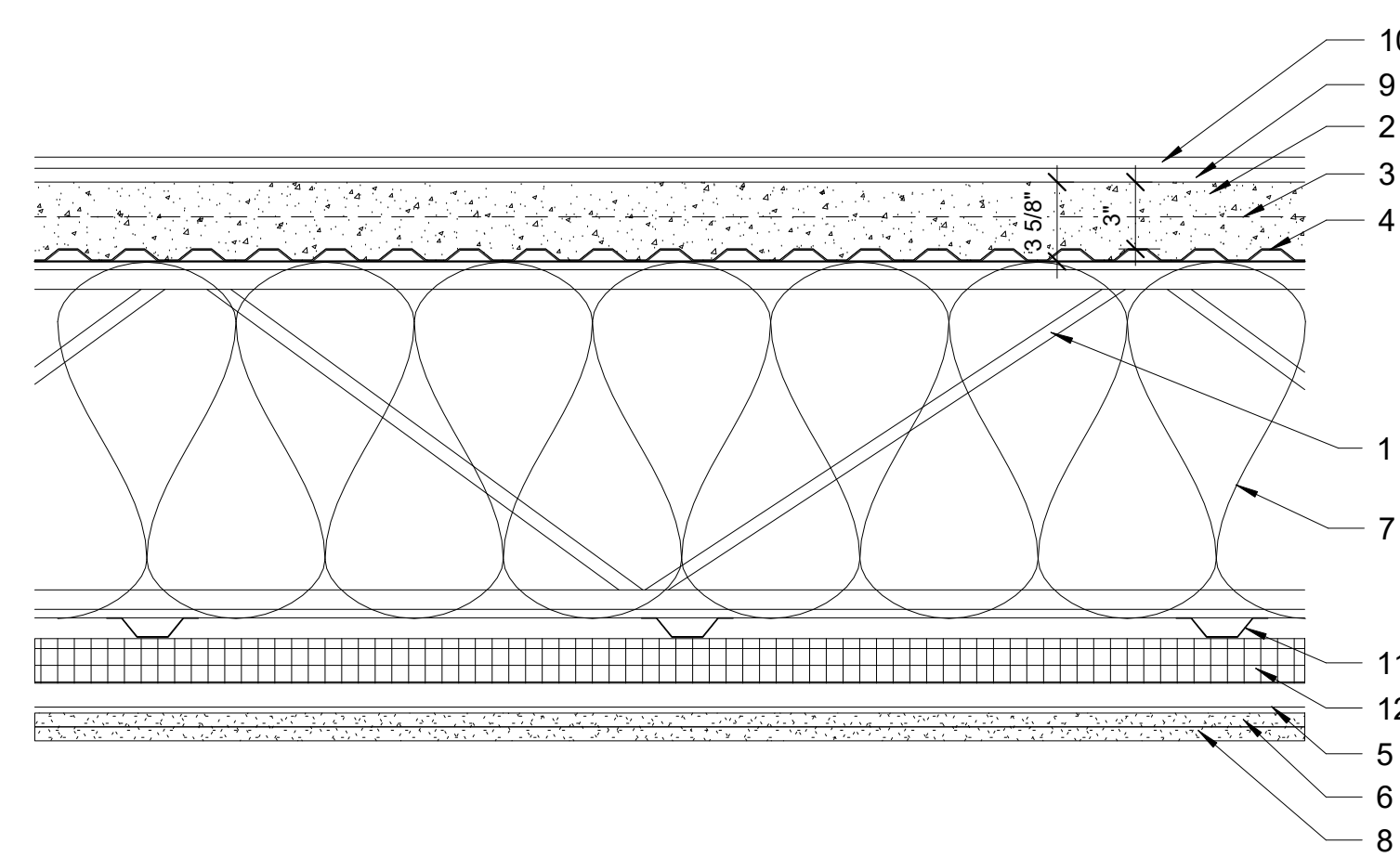
1-HOUR RATED FLOOR / CEILING ASSEMBLY - RETAIL TO LIVING UNIT

DESIGN NUMBER: UL P 267
STC

- JOIST — (SEE STRUCTURAL FOR ACTUAL SIZE)
- NORMAL-WEIGHT CONCRETE — 3500 PSI COMPRESSIVE STRENGTH, VIBRATED. -- (SEE STRUCTURAL FOR ACTUAL SIZE)
- WELDED WIRE FABRIC — (SEE STRUCTURAL FOR ACTUAL SIZE)
- GALV. METAL DECK — 9/16" - 20 GA TYPE UFS (SEE STRUCTURAL)
- KINETICS ISO-MAX HANGERS OR EQUAL
- GYPSUM BOARD -- Nom 5/8 in. thick, 48 in. wide gypsum panels. Gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail.
- SOUND ATTENUATING FIBERGLASS BATT INSULATION -- Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. Fill the cavity with the insulation, but do not compress
- SECOND LAYER OF 5/8" WITH STAGGERED JOINTS (ADDED)
- RESILIENT UNDERLAYMENT, SOUND MAT BY KINETICS NOISE CONTROL (SEE www.kineticsnoise.com) COMPRESSED GLASS FIBER MAT 5/8" THICK. (ADDED)
- FINISHED FLOOR & UNDERLAYMENT AS SPECIFIED

F4 | FLOOR TYPE F4 - 1-HR UNIT TO UNIT

1 1/2" = 1'-0"



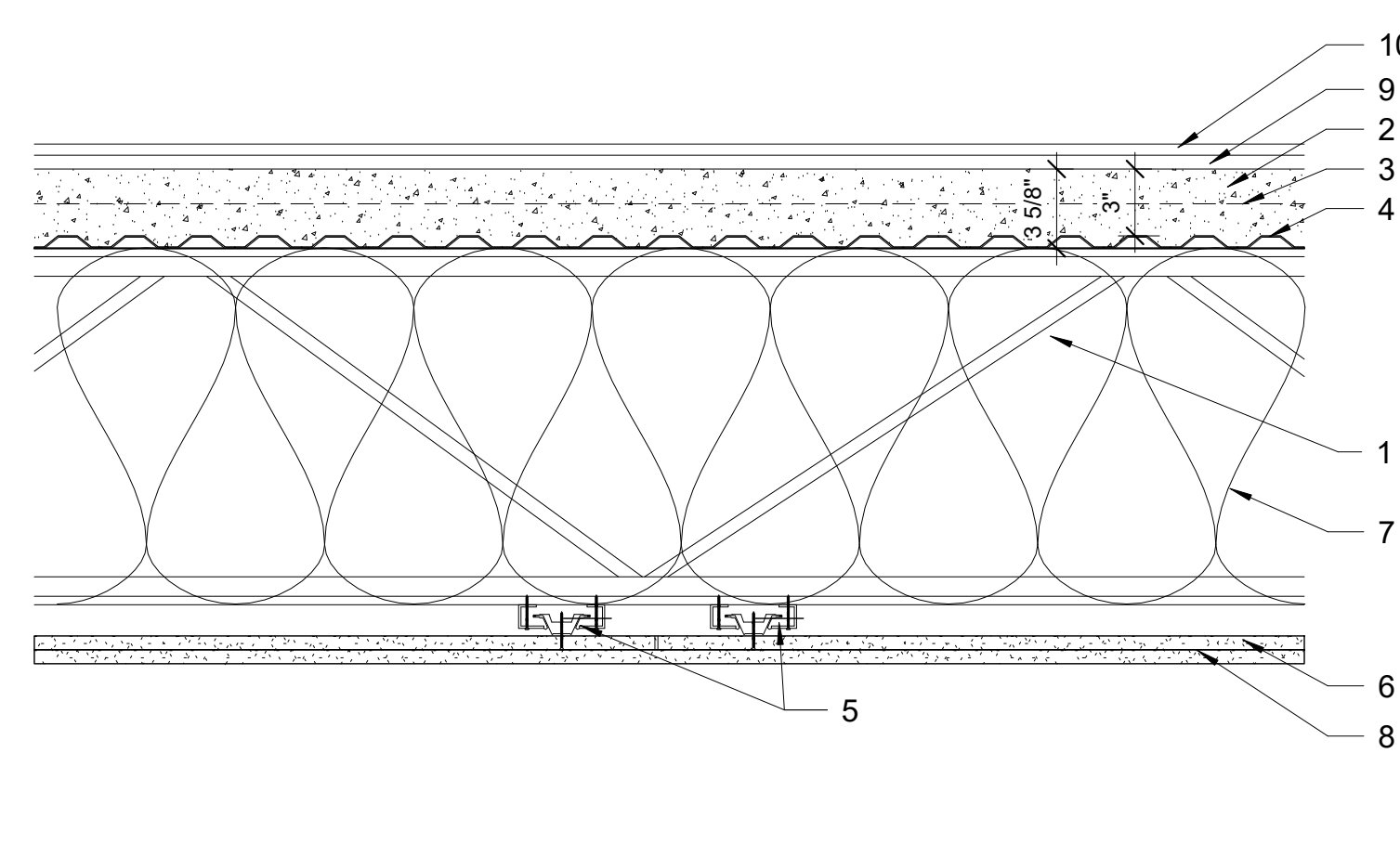
3-HOUR RATED FLOOR / CEILING ASSEMBLY - RETAIL TO LIVING UNIT

DESIGN NUMBER: GA FILE NO. FC 3012 (ASSEMBLY PROVIDES 3-HOUR RATING)
STC

- JOIST — (SEE STRUCTURAL FOR ACTUAL SIZE)
- NORMAL-WEIGHT CONCRETE — 3500 PSI COMPRESSIVE STRENGTH, VIBRATED. -- (SEE STRUCTURAL FOR ACTUAL SIZE)
- WELDED WIRE FABRIC — (SEE STRUCTURAL FOR ACTUAL SIZE)
- GALV. METAL DECK — 9/16" - 20 GA TYPE UFS (SEE STRUCTURAL)
- KINETICS ISO-MAX HANGERS OR EQUAL attached through rigid insulation to hat channels
- EXTERIOR GYPSUM BOARD -- Nom 5/8 in. thick, 48 in. wide gypsum panels. Gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail.
- SOUND ATTENUATING FIBERGLASS BATT INSULATION -- Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. Fill the cavity with the insulation, but do not compress
- SECOND LAYER OF 5/8" WITH STAGGERED JOINTS (ADDED)
- RESILIENT UNDERLAYMENT, SOUND MAT BY KINETICS NOISE CONTROL (SEE www.kineticsnoise.com) COMPRESSED GLASS FIBER MAT 5/8" THICK. (ADDED)
- FINISHED FLOOR & UNDERLAYMENT AS SPECIFIED
- 7/8" HAT CHANNEL
- EXTERIOR INSULATION - 2 INCH POLYISOCYANURATE RIGID INSULATION, WITH A MIN. R-VALUE OF 5 PER INCH.

F3 | FLOOR TYPE F3 - 3-HR GARAGE TO UNIT

1 1/2" = 1'-0"



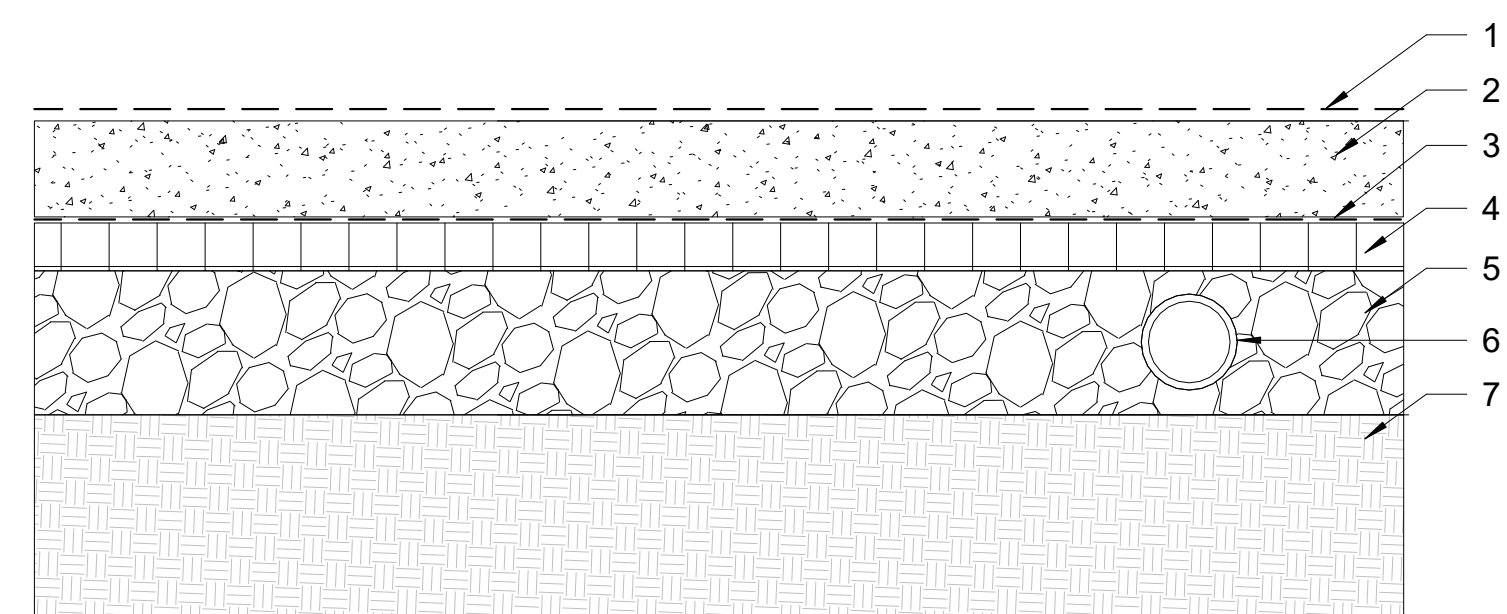
3-HOUR RATED FLOOR / CEILING ASSEMBLY - RETAIL TO LIVING UNIT

DESIGN NUMBER: GA FILE NO. FC 3012 (ASSEMBLY PROVIDES 3-HOUR RATING)
STC

- JOIST — (SEE STRUCTURAL FOR ACTUAL SIZE)
- NORMAL-WEIGHT CONCRETE — 3500 PSI COMPRESSIVE STRENGTH, VIBRATED. -- (SEE STRUCTURAL FOR ACTUAL SIZE)
- WELDED WIRE FABRIC — (SEE STRUCTURAL FOR ACTUAL SIZE)
- GALV. METAL DECK — 9/16" - 20 GA TYPE UFS (SEE STRUCTURAL)
- Kinetics Iso-Max Hangers or Equal
- Gypsum Board -- Nom 5/8 in. thick, 48 in. wide gypsum panels. Gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail.
- SOUND ATTENUATING FIBERGLASS BATT INSULATION -- Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. Fill the cavity with the insulation, but do not compress
- SECOND LAYER OF 5/8" WITH STAGGERED JOINTS (ADDED)
- RESILIENT UNDERLAYMENT, SOUND MAT BY KINETICS NOISE CONTROL (SEE www.kineticsnoise.com) COMPRESSED GLASS FIBER MAT 5/8" THICK. (ADDED)
- FINISHED FLOOR & UNDERLAYMENT AS SPECIFIED

F2 | FLOOR TYPE F2 - 3-HR RETAIL TO UNIT

1 1/2" = 1'-0"



FLOOR SYSTEM - SLAB ON GRADE

- FINISH FLOOR - NOT SHOWN, SEE FINISH SCHEDULE.
- CONCRETE SLAB - SEE STRUCTURAL FOR STRENGTH, THICKNESS AND REINFORCEMENT SPECIFICATIONS
- VAPOR BARRIER - POLYETHYLENE VAPOR BARRIER SHEET WITH SEAMS OVERLAPPED AND TAPED MIN OF 10 MIL, INSPECTION BY ARCHITECT - SEE SPECIFICATIONS
- RIGID INSULATION - 2" 30 PSI EXTRUDED POLYSTYRENE - R-10 - CONTINUOUS UNDER ENTIRE SLAB
- 6" COARSE AGGREGATE
- 4" PERFORATED PVC RADON PIPE - SEE CIVIL & PLUMBING PLANS FOR ADDITIONAL INFORMATION
- COMPACTED STRUCTURAL - FILL COMPACTED TO 95% OF DRY DENSITY - SEE STRUCTURALS FOR DEPTH AND GRADATION

F1 | FLOOR TYPE F1 - SLAB ON GRADE

1 1/2" = 1'-0"